UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 588
PLATE 2

EXPLANATION

SEDIMENTARY ROCKS

QUATERNARY

Holocene

Qal — Alluvium
Stream gravels, sand, and clay

Pleistocene?

Qt — Alluvial-terrace deposits
Stream gravels, sand and clay at higher levels along valley edges

UNCONFORMITY

PENNSYLVANIAN

Middle Pennsylvanian — Des Moines

Pk — Krebs Group
Black to gray fissile shale with a few siltstone and brown sandstone beds, sparse clay ironstone, black fossiliferous limestone, and thin coal partings

UNCONFORMITY

Lower Pennsylvanian — Morrow

Ph — Hale Formation
Brown to black carbonaceous sandstone, dark shale, and fossiliferous bituminous limestone

UNCONFORMITY

MISSISSIPPIAN AND PENNSYLVANIAN

Upper Mississippian — Chester

Mf — Fayetteville Shale
Black, bluish-gray, and greenish fissile or limy shale; subordinate very fossiliferous limestone

Mba — Batesville Sandstone
Gray crinoidal limestone, commonly oolitic; buff sandstone and green shale

Mh — Hindsville Limestone
Gray crinoidal limestone, locally oolitic; sparse sandstone and green shale

PMu — Pennsylvanian and Mississippian, undivided
Krebs Group, Fayetteville(?) Shale, Batesville Sandstone, Hindsville Limestone, and Boone Formation, undivided, in Seneca graben near Seneca and Racine

UNCONFORMITY

Upper Mississippian — Meramec

Mq — Quapaw Limestone
Gray crinoidal limestone, exposed at one locality along Spring River southeast of Quapaw

Lower Mississippian — Osage

Mb, Mbs — Boone Formation
Mb, crinoidal and fine-grained limestone with oolitic and glauconitic beds; much bedded and nodular chert and cotton rock
Mbs, St. Joe Limestone Member, gray to pink crinoidal limestone with shaly layers

DISCONFORMITY

DEVONIAN AND MISSISSIPPIAN

Upper Devonian and Lower Mississippian — Kinderhook

MDc — Chattanooga Shale
Black fissile shale; thin coarse-grained white sandstone at base, locally

UNCONFORMITY

ORDOVICIAN

Lower Ordovician

Oc — Cotter Dolomite
Gray to brown dolomite, sparingly sandy, minor chert

Contact
Dashed where approximately located

Fault
Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side

Anticline
Showing crestline; dashed where inferred

Syncline
Showing troughline; dashed where inferred

Monocline
Showing trace of axis

Area submerged by Lake O' the Cherokees

Base from U.S. Geological Survey, 1907
Roads as of 1956

Geology by C.E. Siebenthal and R. D. Mesler, 1906 and 1907, and by R. P. Fischer, E. T. McKnight, and Mackenzie Gordon, Jr., 1934–41. Axis of Miami trough modified from Weidman (1932)

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GEOLOGIC MAP OF THE WYANDOTTE QUADRANGLE, OKLAHOMA, MISSOURI, AND KANSAS

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL